Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No :6th & Final Bill Date.....2023

Division: **Project** Sub-Division: **Project**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account: **P3747(Nava Nagarothana)** **Work Code: 005-20-000054** Est.Cost: **1250.00 Lacs**

Name of Work: **Developments Works to be under taken in Ward No:05 of BBMP aroud Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency**

Name of Contractor and Full Address: **Sri. A.G.NARAYANASWAMY**

Reference to Agreement No.**02/2021-22** **Date26-05-2021**

Certified that the measurements were taken by me on 15/05/23 and recorded of Pages :**582854 to 582862**

of measurement Book No. **04/2020-2021**and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 15/5/2023 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Upto date - 16850810-00
Prev. au - 9928410-00

Sub-Division Officer

II Memorandum of Payment

		Amount adjusted
1)	Total value of work done or supplies made as per account within	BA 17566600-00
2)	Deduct amount to be held in reserve being .....percent Rs.....	VI 351500-00
3)	" Balance	Cess 156850-00
4)	Deduct Payment:	Secs 156850-00
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... towards cash advance recovery of	Gr 17600-00
	b) Payments Now made { cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.	Secr 176000-00
5)	Balance being unpaid value of work done held in reserve.	LC 478500-00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	unadjustments items.
7)	Net amount due to or from Contractor	fine 16000-00
8)	Advance to Contractor for materials brought to site (as detailed) within.	Total amount adjusted - 1353300-00
9)	Value of Government materials supplied.	

Contractor's Signature

1162/3300-00

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

Stamp

Head of Account P-3747

Audited & admitted for Rs. 17566600-00

Dated **Signature of Contractor**

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

1162/3300-00

Executive Engineer

.....by Cheque

and Rs. 1353300-00 by Adjustment

Asst. Clerk Project Division | Asst. Engr. Project Division B.B.M.P. | Exe. Engineer Project Division B.B.M.P

Projects Division-Yelahanka Zone

Name of Work: Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.

Job Code :- 005-20-000054

Name of Agency :- M/s A G Narayanaswamy

Bill No :- 6th and Final Bill

Sl.No	Item Description	Unit	Modified BOQ	Schedule-B Qty	Rate	Amount	Previous Measurement		Present Measurement			Total UP-to-date	
							Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33,KPWD SR 2018-19)	Sqm	983.10	14378.83	106.04	1524731.13	337.20	35757.00	645.90	106.04	68491.00	983.10	104248.00
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-144)	Cum	2306.71	7572.12	202.44	1532899.97	1641.48	332300.00	665.03	202.44	134628.00	2306.51	466929.00
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (P.No-27,I No-5.31.1, KPWD SR 2018-19), 7.5cms thick	Sqm	90.00	2396.47	684.44	1640239.93	90.00	61600.00	0.00	684.44	0.00	90.00	61600.00
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)	Cum	249.27	67.20	5109.20	343338.24	84.00	429173.00	—	5109.20	0.00	84.00	429173.00
	Above 125%				5560.70		165.27	919017.00	—	5560.70	0.00	165.27	919017.00
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)	Cum	543.10	165.12	6940.80	1146064.90	206.40	1432581.00	—	6940.80	0.00	206.40	1432581.00
	Above 125%				7140.90		336.70	2404341.00	—	7140.90	0.00	336.70	2404341.00

Sl.No	Item Description	Unit	Modified BOQ	Schedule-B Qty	Rate	Amount	Previous Measurement		Present Measurement			Total UP-to-date	
							Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I No-28.8.2,P No-229)	MT	30.12	14.86	67480.00	1002752.80	18.57	1253104.00	—	67480.00	0.00	18.57	1253104.00
	Above 125%				80948.07		11.55	934950.00	—	80948.07	0.00	11.55	934950.00
7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	87.87	384.00	5152.58	1978590.72	87.87	452757.00	—	5152.58	0.00	87.87	452757.00
8	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	1528.89	1080.00	2125.62	2295669.60	1350.00	2869587.00		2125.62	0.00	1350.00	2869587.00
	Above 125%				2354.31		178.89	421163.00		2354.31	0.00	178.89	421163.00
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19)	Cum	19105.33	14453.97	63.62	919561.57	15410.96	980445.00	362.84	63.62	23084.00	15773.80	1003529.00
	Above 125%				71.10		2293.68	163080.00	910.24	71.10	64718.00	3203.92	227798.00
	deduct excess paid								2293.68	-7.48	-17157.00	2293.68	-17157.00
10	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)	Cum	13503.74	15186.93	2073.56	31491010.57	12470.72	25858789.00	951.28	2073.56	1972544.00	13422.01	27831333.00

Sl.No	Item Description	Unit	BOQ	Qty	Rate	Amount	Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount

Sl.No	Item Description	Unit	Modified BOQ	Schedule-B Qty	Rate	Amount	Previous Measurement		Present Measurement			Total Up-to-date	
							Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
11	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 03-01-2020	Sqm	57237.28	48179.90	28.92	1393362.71	43934.47	1270585.00	12894.80	28.92	372918.00	56829.27	1643503.00
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-158,I No-21.7), issue rate dated 03-01-2020	Sqm	114051.35	88446.65	13.50	1194029.78	87852.03	1186002.00	25790.35	13.50	348170.00	113642.38	1534172.00
13	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. (P.No-158,I No-21.2,KPWD SR 2018-19)	Sqm	10780.04	30944.45	5.78	178858.92	349.90	2022.00	3842.25	5.78	22208.00	4192.15	24230.00
14	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 03-01-2020	Cum	2823.00	2642.05	6835.72	18060314.03	2178.19	14889524.00	642.99 ~~642.99~~ 644.74	6835.72	~~4395300.00~~ 4407262.11 4395300-00	2821.18	19284824.00 19296786.1

Sl.No	Item Description	Unit	Modified BOQ	Schedule-B Qty	Rate	Amount	Previous Measurement		Present Measurement			Total UP-to-date	
							Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
15	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 03-01-2020	Cum	2303.12	3351.42	8033.98	26925241.25	1770.96	14227883.00	514.42	8033.98	4132856.00	2285.39	18360739.00
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)	Sqm	1772.70	3571.30	482.00	1721366.60	0.00	0.00	1755.70	482.00	846245.00	1755.70	846245.00
17	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.(I No-18.47,P No-140)	Cum	968.08	**2089.31**	915.80	1913390.10	659.63	604088.00	308.44	915.80	282467.00	968.07	886555.00

Sl.No	Item Description	Unit	BOQ	Qty	Rate	Amount	Previous Measurement		Present Measurement			Total UP-to-date	
							Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
18	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5, with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (P.No-174,I No-22.1.1)	Cum	1016.51	**1253.59**	3368.87	4223181.74	831.44	2801002.00	185.06	3368.87	623452.00	1016.50	3424454.00
19	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)	Cum	1016.19	**1253.59**	5000.00	6267950.00	831.11	4155533.00	185.06	5000.00	925313.00	1016.17	5080846.00

Sl.No	Item Description	Unit	Modified BOQ	Schedule-B Qty	Rate	Amount	Previous Measurement		Present Measurement			Total UP-to-date	
							Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
E-1	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Page, 25 Item 5.26.2)	Sqm	208.32		989.23	0.00	208.32	206077.00	0.00	989.23	0.00	208.32	206077.00
E-2	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page, 13 Item 4.6)	cum	11.39		5804.79	0.00	11.39	66117.00	0.00	5804.79	0.00	11.39	66117.00
E-3	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (Page, 27 Item 5.30)	Nos	3351.00		436.80	0.00	3351.00	1463733.00	0.00	436.80	0.00	3351.00	1463733.00
E-4	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Sqm	62905.68		6.42	0.00	57020.24	366070.00	5477.37	6.42	35165.00	62497.61	401235.00
E-5	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (Page, 147 Item 19.60)	Cum	4525.94		347.95	0.00	4525.92	1574771.00	0.00	347.95	0.00	4525.92	1574771.00

Sl.No	Item Description	Unit	Bill quty			Previous Measurement		Present Measurement			Total UP-to-date	
						Qty	Amount	Qty	Rate Rs.	Amount	Qty.	Amount
E-6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page, 153 Item 20.6)	cum		1873.55	0.00	3888.08	7284516.00	350.48	1873.55	656642.00	4238.56	7941158.00
		Sub Total			105752446.00		88646568.00			1,49,48,332.00		103594900.00
		GST 12%			12690294.00		10637588.00					10637588.00
		GST 18%							Gst 18%	2690700.00		2690700.00
		Grand Total			118442740.00		99284156.00			17639032.00		11,69,23,188.00

Certificate:

1 **Certified that the contractor has work done satisfactorily**
2 **The contractor has removed the debris from work site**
3 **There is no dept. material issued to the contractor**

Contractor

TEJUS CONSULTANTS PMC

Assistant Engineer
Yelahanka Projects

1,48,86,998-00
26,79,659-00
17566657

1,16,85,081

Assistant Executive Engineer
Yelahanka Projects

17566600.00